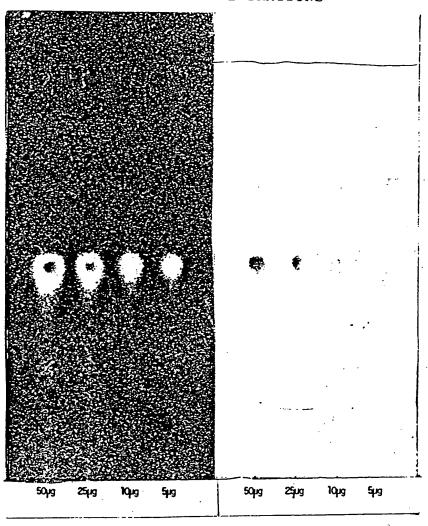
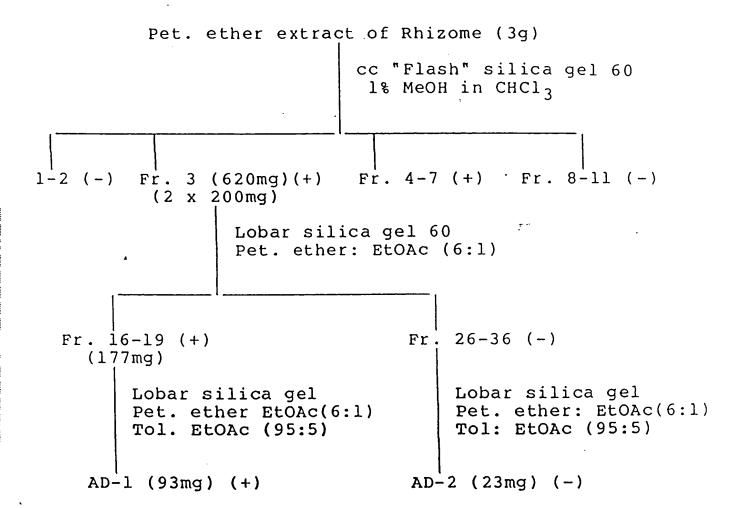
Fig. 1

ANTIFUNGAL ACTIVITY OF Labda-8(17),12-diene-15,16-dial (AD-1)AGAINST Cladosporium cucumerinum AT DIFFERENT CONCENTRATIONS



SCHEME FOR THE ISOLATION OF ANTIFUNGAL CONSTITUENTS OF Aframomum daniellii K. Schum (Fam. Zingiberaceae)



- + active
- inactive

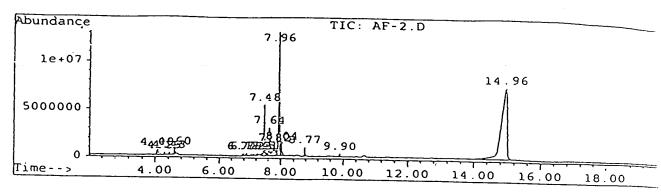


Fig 2A

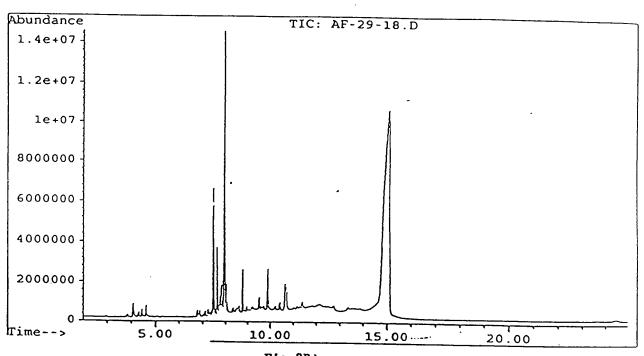


Fig 2B'

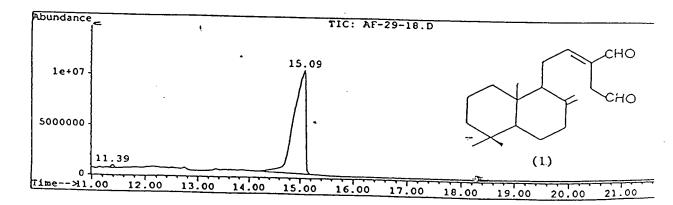


Figure 2C

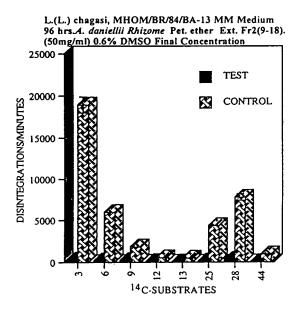


Figure 2D

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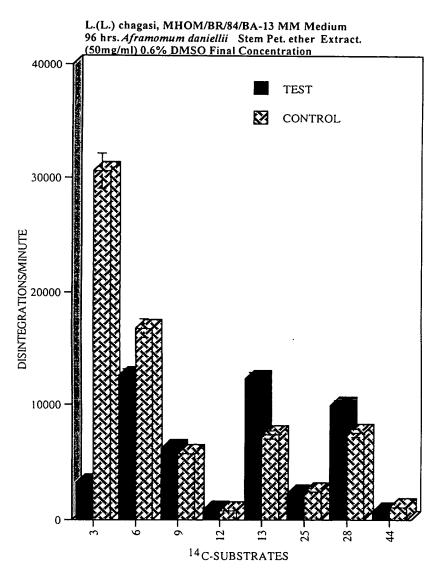
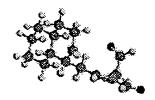


FIGURE 2E

Molecular Representation of Labda-8 (17), 12-diene-15,16- diai

(Diterpene Dialdehyde)



ball & stick model



space-filling model



total electron density surface



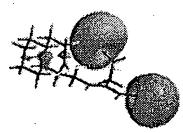
MEP onto total electron density surface



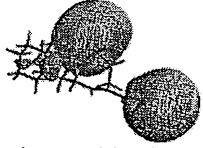
LUMO surface



HOMO surface



Isopotential surface at -10.0 kcal/mol



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FIG. : 3 2F

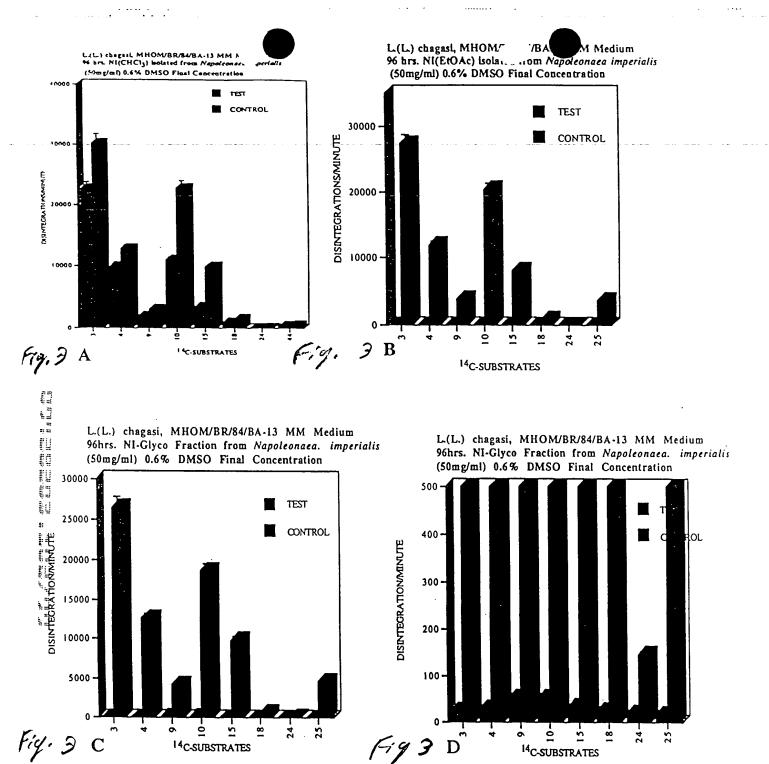


Figure 3 Test results from Napoleonaea imperialis..

At 50µg/ml suppression of parasite catabolism of 8 of ¹⁴C-Substrates occurred

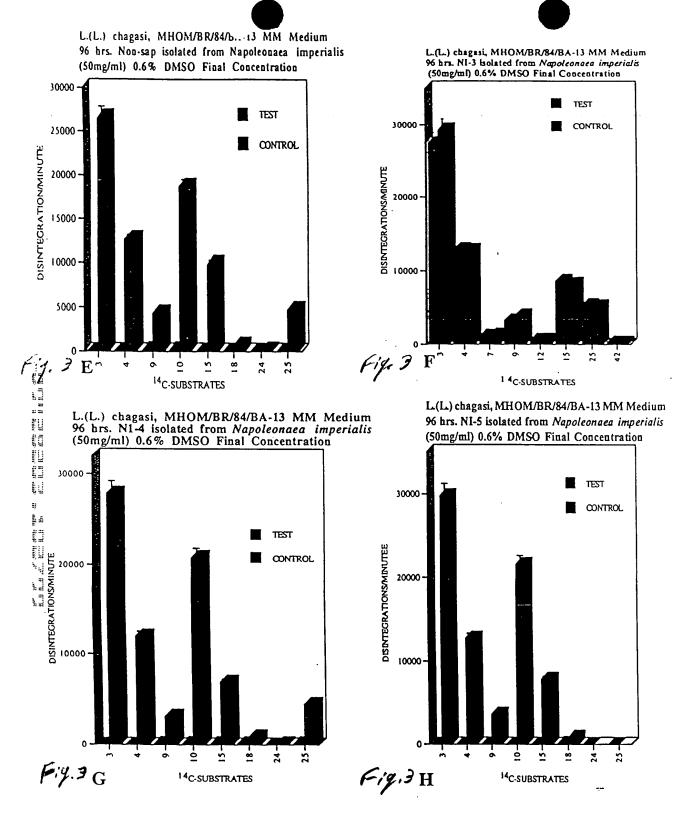


Figure 3 Test results from Napoleonaea imperialis.. At 50µg/ml suppression of parasite catabolism of 8 of ¹⁴C-Substrates occurred

Data File C:\HPCHEM\1\DATA\0050396C.D

Sample Name: E00 60

5"90:10-40"30:70 Water:ACN

long C18 column

1.0m

1/min

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DAD 254nm

Acq. Method

: IRDBAY.M

Seq. Line :

Acq. Operator

: dgbg

Vial : 100

· operator · operator

Inj :

Sample Name

: E00 60/45

Inj Volume : 10 μ l

Analysis Method : C:\HPCHEM\1\METHODS\IRDBAY.M

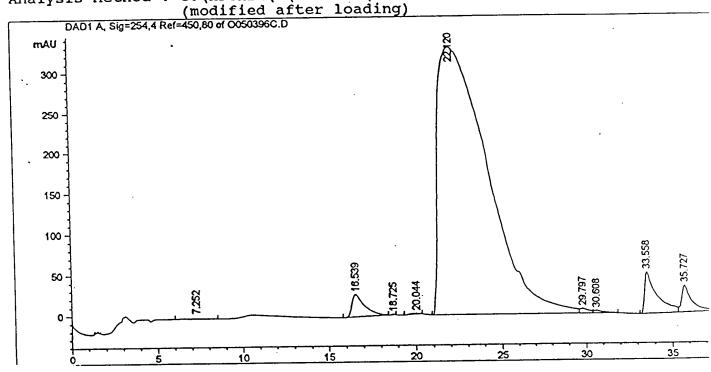


Figure 31 Liquid Chromatographic Separation of Eupatorium odoratum

Antileishmanial Fraction E00 60-104.

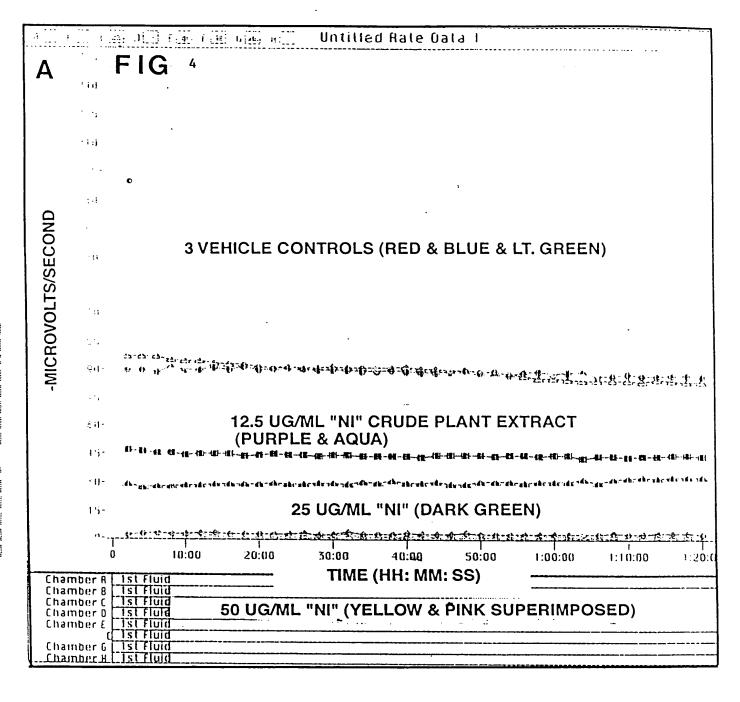


Figure 4A

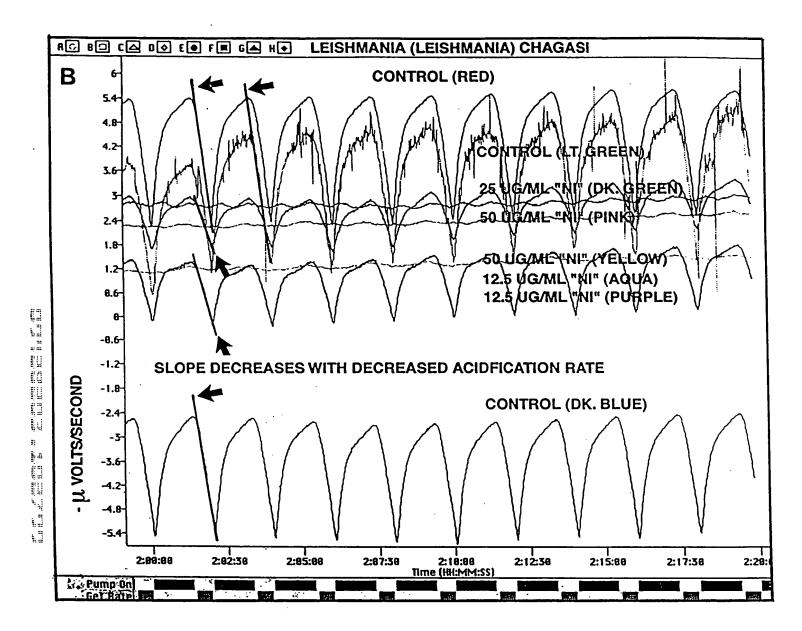


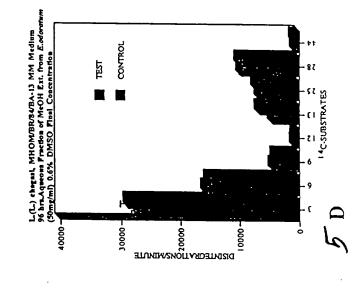
Figure 4B

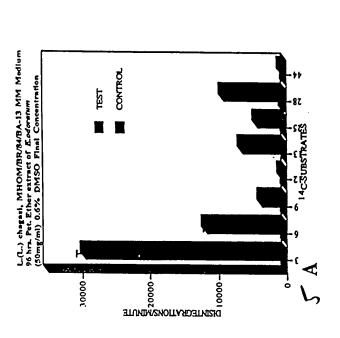
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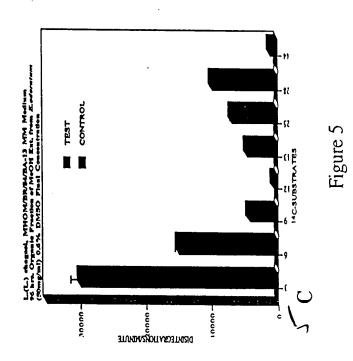
8 8 0	ស្វារាស្រ្ត ប្រាស្រ្ត Super Contilled Rate Oats 1	
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1.3.	12.5 UG/ML "NI" PURPLE & AQUA	:
611		
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15-	ૡ <u>ૢ૱૱૱૱૱૱૱ૡૺૺૼૺૺૼૼૼૺૺૺૺ૾ૺઌ૽૽ૺૺૼૺ૾ૺૺઌ૽ૻૺ૽ઌ૽ૺૼૺૺૺૺૺૺૺૺૺૺૺૺૺૺૺૺૺૺૺૺૺૺૺૺૺૺૺૺૺ</u>	4
n.i.	FO LOGGE UNION	1
	50 UG/ML "NI" 6:50:00 7:00:00 7:10:00 7:20:00 7:30:00 YELLOW & PINK TIME (HH: MM:SS)	
Chamber P Chamber E	+7 HRS	
Chamber C Chamber D Chamber E		 - · · · ·
Chamber F Chamber G		
Chamber B	7	

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Figure 40

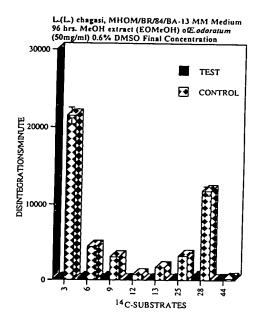


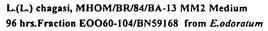


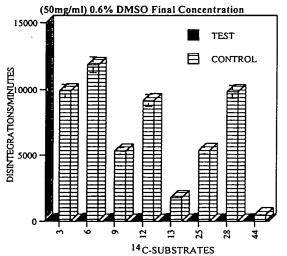


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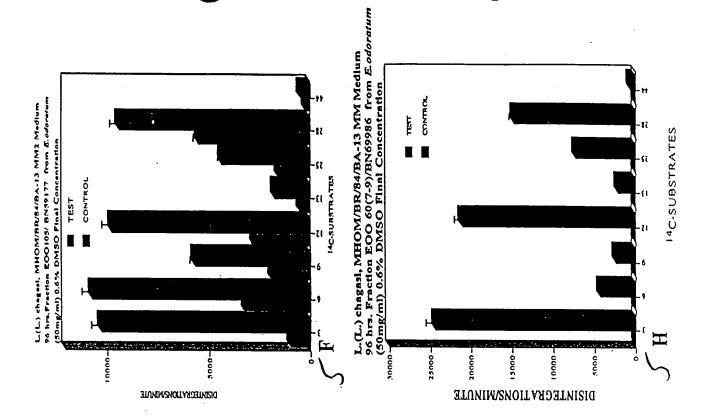
hg. 58



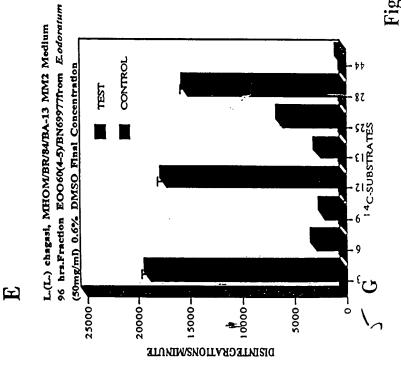












EL.

Fig. 6

TABLE 1

Numeric code abbreviations of 'C-substrates used for drug tests*

Numeric Code	14C-Substrates+	<u>Commercial</u> <u>Source</u>
2	L-Arginine (guanidino-14C)	A++
3	L-Aspartic Acid (4-14C)	. A
4	L-Asparagine (U-14C)	A
5	L-Glutamic Acid (U-14C)	Α
6	L-Glutamine (U-14C)	A
7	Glycine (U-14C)	Α
9	L-Isoleucine (U-14C)	Α
10	L-Leucine (1-14C)	Α
12	L-Methionine (1-14C)	A
13	L-Ornithine (1-14C)	A
15	L-Proline (U-14C)	A
17	Taurine (U-14C)	Α
18	L-Threonine (U-14C)	. A
20	Tyramine (7-14C)	Α
24	L-Fucose (1-14C)	Α
25	D-Galactose (1-14C)	A
28	D-Mannose (1-14C)	A
42	Orotic Acid (carboxyl-14C)	Nss
44	Succinic Acid (1,4-14C)	И
46	Na-n-Butyric Acid (1-14C)	A
49	D-Glucosamine (1-14C)	A
52	Na-Glycocholic Acid (1-14C)	Α
53	L-Methionine (methyl-14C)	A

TABLE 2.

In vitro Antimalarial Activity of Isolated Compounds Against Clones of Plasmodium falciparum

		IC_{50} ($\mu g/ml$)		
Compounds	Plant Source	W ₂ clone	D ₆ clone	
Labda-8(17),12-diene-15,16-dial (I)	Aframomum daniellii	96.66	280.18	
Sakurenatin (II)	Eupatorium odoratum	164.95	123.88	
Aulacocarpin (III)	Aframomum aulocacarpus	2224.72	146.72	

FIGURE 7

Table 3.

In vitro Activity of Plant Extract vs Growth of African Trypanosomes.

		EATRO 110	KETRI 243	KETRI 269	KETRI 243-
Di di wit cont	2.58				As-10 3
Picralima nitida pfr2 SU-	9.2	15.1	8.4	8.5	
Picralima nitida pfr3 SU	1.1	6.1	8.2	11	
Picralima nitida pfr4 SU-		64	5	500g/ml-22%	500mg/ml-13%
Aframomum melegueta h		102	21.5	500?g/ml-22%	47
Aframomum aulocacarpu		9.0	8.5	12.6	14.9
Aframomum melegueta N	MeOHSU-798	8.4	7.2	15	30
Aframomum melegueta a		500μg/ml-38%	500μg/ml-14%	500μg/ml-44%	5OOμg/ml-22%
Gongronema latifolium C	-	134	74	79	51
Gongronema latifolium	ext SU-105	500μg/ml-16%	. •	5OOμg/ml-7%	500μg/ml8%
Grape seed2032 SU 719		1.9	2.0	1.6	3.4
Albizia ferruginea hex SI		18.0	19.6	28.9	40.55
Uvaria chamae rt DCM		115	229	114	117
Morinda lucida DCM SU		33	32.5	30.0	39.0
Dracaena mannii pDM-X		6.5	5.4	6.8	6.2
Picralima nitida PNP-2 S		15.0	16.9	18.0	13.5
Picralima nitida PNP-4 S		13.5	8.3	12.5	12.6
Picralima nitida PNP-8 S		14.1	16.0	18.0	15.1
Kigelia africana MeOHS		119	73.0	74	78
Araliopsis tabouensis Me		6.4	64.0	59	105
Araliopsis tabouensis AT		500	-	=	=
Araliopsis tabouensisAT7		100	-	-	
Aframomum aulocacarpu					
(aulacocarpin) A		0.86	-	-	-
Dracaena mannii Mannis		6.4	-	-	-
Napoleonaea imperialis S		1.75	-	-	•
Mezoneurum benthamiam		44	19.5	18.5	-
	SU-1750	19	76	37	•
Eupatorium odoratum L N		50µg/ml	•	-	-
compound sakuranetin	SU-1751	20	20.5	73	•
Gnetum africamum	SU-1752	202	190	225	
Picralima nitida					
CompoundBN79508*	SU-1753	-	•	-	-
Plantex vellous	SU-1756	75	18.5	13.5	•
Plantex vellous	SU-1757	1.5	-	13	-
Fagara lemairei	SU-1758	2.2	2	2.05	_
Fagara lemairei	SU-1759	20.5	170	130	-
Erythrina senegalensis	SU-1760	7.2	9.1	15.5	-
Erythrina senegalensis	SU-1761	18.9	20	22	-
Mitracarpus scaber	SU-1762	98	105	71	•
Olax viride	SU-1763	195	32%@ 500µg/ml	235	_
Chasmanthera dependens.	SU-1764	225	225	-	-
Glossocalyx brevipes ext		0.77	_	-	
Glossocalyx brevipes					
Neutral fraction	SU-1768	0.78	0.76	0.715	-

Dorsternia barteri	SU-1769	7.5	7.3	15.25	-
<i>50.5.</i> 6	SU-1770	16.5	19.5	16	-
	SU-1771	54	60	-	-
	SU-1772	50	47	-	•
Garcinia kola Heckel	SU-1773	210	210	-	•
Pentamidine		0.00048	0.00186	0.00192	0.003
Melarsen Oxide (-) = not tested		0.00077	0.0025	0.0066	0.0072

(-) SU

= Submitter number.

Table 4 Minimum Inhibitory concentration (MIC) of Plant Extracts against Trichomonas vaginalis strain CI-NIH

Fig. 9

	MIC (mg/ml)			
	•	CI-NIH	CDC-085	KV-1
	Lab. No	48 hrs	48 hrs	48 hrs
Gongronema latifolium	SU-105	>2.50	2.50	2.50
Dracaena mannii	SU-175	2.50	2.50	2.50
Picralima nitida	SU-367	12.50	12.50	0.78
Picralima nitida	SU-369	0.62	1.25	1.25
Picralima nitida	SU-370	2.50	2.50	2.50
Gongronema latifolium CHC13	SU-614	1.25	0.62	1.25
Albizia ferruginea hex	SU-679	0.62	0.62	0.62
Grape fruit seed 2032	SU-719	0.31	0.01	0.15
Araliopsis tabouensis MeOH fr	SU-724	0.62	0.62	2.50
Morinda lucida DCM	SU -740	1.25	1.25	1.25
Aframomum melegueta hex	SU-766	1.25	1.25	2.50
Kigelia africana MeOH	SU-769	0.31	0.62	0.62
Aframomum melegueta CHC13	SU-787	0.62	1.25	2.50
Aframomum melegueta MeOH	SU-798	1.25	0.62	.25
Uvaria chamae nt DCM	SU-799	0.15	0.31	0.62
Aframomum melegueta aqueou	ısSU-813	2.50	2.50	0.15
Picralima nitida PNP-2	SU-846	2.50	1.25	2.50
Picralima nitida PNP-4	SU-847	2.50	2.50	2.50
Picralima nitida PNP-8	SU-848	2.50	2.50	2.50
Metronidazole		0.003	0.40	0.004